## ABSTRACT

Affords high-stability, high-safety lithium secondary batteries of high energy density and superlative charge/discharge cyclability, in which shorting due to the growth of dendrites from the metallic-lithium negative electrode is kept under control.

A lithium secondary battery negative-electrode component material, formed by laminating onto a substrate a metallic lithium film and an inorganic solid-electrolyte film, the lithium secondary battery negative-electrode component material characterized in that the inorganic solid-electrolyte film incorporates lithium, phosphorous, sulfur, and oxygen, and is represented by the compositional formula noted below.

$$a$$
Li •  $b$ P •  $c$ S •  $d$ O

(Li: lithium; P: phosphorous; S: sulfur; O: oxygen), wherein the ranges of the atomic fractions in the composition are:

 $0.20 \le a \le 0.45$ ;

 $0.10 \le b \le 0.20$ ;

 $0.35 \le c \le 0.60;$ 

 $0.03 \le d \le 0.13$ ;

20 (a+b+c+d=1).

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